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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,921	10/20/2003	Yao-Ching Su	025789-00010	8340

4372 7590 08/06/2007

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EXAMINER	
BODDIE, WILLIAM	
ART UNIT	**PAPER NUMBER**
2629	
MAIL DATE	**DELIVERY MODE**
08/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/687,921	SU ET AL.	
	Examiner	Art Unit	
	William L. Boddie	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-3-10, 12-16* is/are pending in the application.

4a) Of the above claim(s) *6-9,14 and 15* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,3-5,10,12,13 and 16* is/are rejected.

7)☒ Claim(s) *1, 3, 5, 10, 12 and 16* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. In an amendment dated, March 14th, 2007 the Applicants amended claims 1 and 10 and cancelled claims 2 and 11. Currently claims 1, 3-5, 10, 12-13 and 16 are pending.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 3-5, 12-13 and 16 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

3. Claims 1, 3, 5, 10, 12 and 16 are objected to because of the following informalities:

Claims 1 and 10 state, in line 9, "under said cell area., wherein". The punctuation is incorrect grammatically.

Claim 3 states, in line 1, "the device of claim 1", this is inconsistent with claim 1's preamble.

Claims 3 and 12 states, in line 1, "at least one of wherein said gap". This phrase is grammatically incorrect.

Claim 5 states, in line 1, "wherein said data electrodes *has.*" This phrase is grammatically incorrect.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 10 recite the limitation "said row barrier ribs" in line 13. There is insufficient antecedent basis for this limitation in the claim.

Claim 16 recites the limitation "said data electrodes" in lines 8-9. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1, 3-5, 10, 12-13 and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Kosaka (US 6,727,869).

With respect to claims 1 and 3, Kosaka discloses, a plasma display panel with barrier ribs (29 and 19 in fig. 8) configured in a closed shape (rectangle in fig. 8) comprising:

a plurality of sub-pixel cells (28'-1 for example in fig. 8) each having a cell area defined by said closed shape barrier ribs (clear from fig. 8);

a plurality of said sub-pixels cells in a delta configuration defining a color pixel (col. 11, lines 5-7);

a plurality of sustain electrodes each space apart in a row direction at a predetermined cell length (X1-3 and Y1-3 in fig. 8);

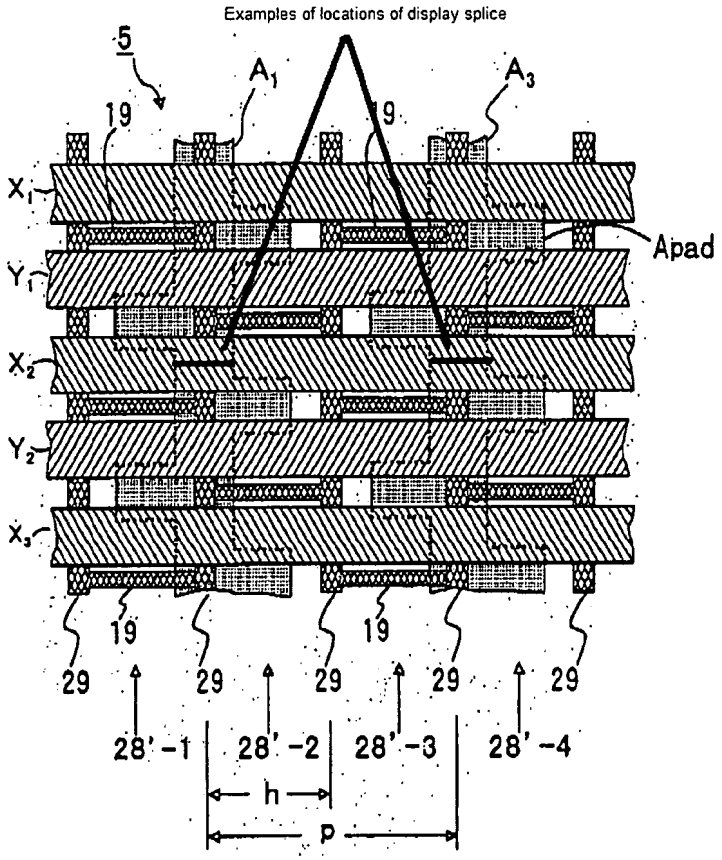
a plurality of data electrodes (A1, A3 in fig. 8) overlapping a wall of said barrier ribs in a column direction (29 in fig. 8), each of said data electrodes extending under said cell area (clear from fig. 11); wherein

a dual scan gap (clear from fig. 12) of predetermined gap length is formed between a pair of said data electrodes (A1, A3 in fig. 8) in the column direction and at least partially overlapping the barrier ribs in a column direction (clear from fig. 8), and

a gap is formed between said row barrier ribs and said data electrodes, and said gap is positive or negative (clear from figs. 8 and 12), wherein said gap is less than 40% of the cell length (see discussion below).

From figure 12 it is clear that the alternating protrusions of the data electrodes continue from one side of the panel to the other. With this in mind, we turn to figure 8, where when the data electrodes are split it should be clear that there would be a gap between the row ribs, 19, and the data electrode that is less than 40% of the cell length. See the below annotated figure for further explanation. It is clear to the Examiner that upon splitting the electrodes there will be a gap of less than 40% between the row oriented ribs and data electrodes.

FIG. 8



With respect to claim 4, Kosaka discloses, the panel of claim 1 (see above), wherein said gap length is smaller than said cell length (see above) and said gap length crosses over one of said row barrier ribs (clear from fig. 8).

With respect to claim 5, Kosaka discloses, the panel of claim 1 (see above), wherein said data electrodes has an expanded portion in said cell area (clear from figs. 8 and 11).

With respect to claims 10-13, these claims are seen as merely method versions of the above rejected claims 1 and 3-4 respectively. As such they are rejected on the same merits shown above in the rejection of claims 1 and 3-4.

With respect to claim 16, Kosaka discloses, a plasma display panel with barrier ribs (29 and 19 in fig. 8) configured in a closed shape (rectangle in fig. 8) comprising:

a plurality of sub-pixel cells (28'-1 for example in fig. 8) each having a cell area defined by said closed shape barrier ribs (clear from fig. 8);

a plurality of said sub-pixels cells in a delta configuration defining a color pixel (col. 11, lines 5-7);

a plurality of sustain electrodes each space apart in a row direction at a predetermined cell length (X1-3 and Y1-3 in fig. 8);

a dual scan gap (clear from fig. 12) of predetermined gap length is formed between a pair of said data electrodes (A1, A3 in fig. 8) in the column direction and said dual scan gap under barrier ribs (clear from fig. 12).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William L. Boddie whose telephone number is (571) 272-0666. The examiner can normally be reached on Monday through Friday, 7:30 - 4:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wlb
8/1/07

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